

CALL FOR PAPERS: J-BHI Special Issue on "Computer-Based Intelligent Technologies for Improving the Quality of Life"

According to the UN¹, 2 billion persons over the age of 60 are projected to be alive by 2050, implying a rapid increment in dementia and other age-related disabilities. Moreover, WHO² indicates that the world ratio of disabilities and impairment cases will also augment due to the rapid growing of the population in less developed regions. Finally, the OECD³ warns about future shortages of available health workers and doctors. By joining the previous three factors we get a new situation in which the world needs "extra" help for facing health and medical related problems.

Quality of Life (QoL) technologies have emerged as the concept of applying findings from different technological areas to assist people in their daily life activities, and to help health workers, caregivers, and doctors in their tasks. It is of particular interests the QoL technologies based on artificial intelligence. Therefore, we invite researchers from the fields of computer science, robotics and autonomous systems, bioengineering, and medicine, among others to submit their original works related (but not limited) to the following topics:

- Medical technologies: health/cognitive information/monitoring systems, brain computer interfaces, intelligent prosthesis, bio-signal/image analysis and interpretation, diagnosis, etc.
- Ambient intelligence: intelligent/smart rooms and houses, people activity monitoring and recognition, detection of accidents, wearable intelligent sensors, etc.
- Robotics: personal and service robotics, rehabilitation robotics, cognitive robotics, tele-presence, etc.
- Performance metrics and evaluation of intelligent systems for Quality of Life.

¹United Nations, ²World Health Organization, ³ Organization for Economic Co-operation and Development

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SUBMISSION OF MANUSCRIPTS

Manuscripts must be prepared according to the format of the IEEE Transactions (bme.ee.cuhk.edu.hk/TITB/instr4authors.html) and electronically submitted through the web-based Manuscript Central (embs-ieee.manuscriptcentral.com/). When submitting, authors are requested to *choose* "Computer-Based Intelligent Technologies for Improving the Quality of Life" in the manuscript type to indicate that the paper is intended for this special issue.

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For any further questions, please contact the Guest Editors or the Editor-in-Chief.